SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> Modified antibodies recognizing trimer receptor or higher

<130> C1-A0324P

<150> JP 2003-415735
<151> 2003-12-12

<160> 42

<170> PatentIn version 3.1

<210> 1
<211> 797
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized nucleotide sequence

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gtccagtgtg aggtacagct gttggagtct gggggaggct tggtacagcc tgggaggtcc 120

ctgagactct cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc 180

cgccaggctc agggaaggg gctggagtgg gtctcagcta ttagtggtag tggtggtagc 240

agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300

acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360

aaagagagca gtggctggtt cggggccttt gactactggg gccagggaac cctggtcacc 420

gtctcctcag gtggagaaat tgtgctgact cagtctccag actttcagtc tgtgactcca 480

aaggagaaag tcaccatcac ctgccgggcc agtcagagca ttggtagtag cttacactgg 540

taccagcaga aaccagatca gtctccaaag ctcctcatca agtatgcttc ccagtccttc 600

tcaggggtcc cctcgaggtt cagtggcagt ggatctggga cagatttcac cctcaccatc 660

aatagcctgg aagctgaaga tgctgcagcg tattactgtc atcagagtag tagtttaccg 720

atcaccttcg gccaagggac acgactggag attaaagact acaaggatga cgacgataag 780

tgataagcgg ccgcaat 797

<210> 2
<211> 256
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized peptide sequence

<400> 2

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu

50 55 60

Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Glu Ile Val
130 135 140

Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val
145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp
165 170 175

Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala
180 185 190

Ser Gln Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala
210 215 220

Ala Ala Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly
225 230 235 240

Gln Gly Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys

245 250 255

<210> 3
<211> 794
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized nucleotide sequence

<400> 3
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gtccagtgtg aggtacagct gttggagtct gggggaggct tggtacagcc tgggaggtcc 120

ctgagactct cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc 180

cgccaggctc agggaaggg gctggagtgg gtctcagcta ttagtggtag tggtggtagc 240

agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300

acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360

aaagagagca gtggctggtt cggggccttt gactactggg gccagggaac cctggtcacc 420

gtctcctcag gtgaaattgt gctgactcag tctccagact ttcagtctgt gactccaaag 480

gagaaagtca ccatcacctg ccgggccagt cagagcattg gtagtagctt acactggtac 540

cagcagaaac cagatcagtc tccaaagctc ctcatcaagt atgcttccca gtccttctca 600

ggggtcccct cgaggttcag tggcagtgga tctgggacag atttcaccct caccatcaat 660

agcctggaag ctgaagatgc tgcagcgtat tactgtcatc agagtagtag tttaccgatc 720

accttcggcc aagggacacg actggagatt aaagactaca aggatgacga cgataagtga 780

taagcggccg caat 794

<210> 4
<211> 255
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized peptide sequence

<400> 4

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr

115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Glu Ile Val Leu
130 135 140

Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val Thr
145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp Tyr
165 170 175

Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala Ser
180 185 190

Gln Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
195 200 205

Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala
210 215 220

Ala Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly Gln
225 230 235 240

Gly Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
245 250 255

<210> 5
<211> 791
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized nucleotide sequence

<400> 5

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ctgagactct cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc 180

cgccaggctc agggaaggg gctggagtgg gtctcagcta ttagtggtag tggtggtagc 240

agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300

acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360

aaagagagca gtggctggtt cggggccttt gactactggg gccagggaac cctggtcacc 420

gtctcctcag aaattgtgct gactcagtct ccagactttc agtctgtgac tccaaaggag 480

aaagtcacca tcacctgccg ggccagtcag agcattggta gtagcttaca ctggtaccag 540

cagaaaccag atcagtctcc aaagctcctc atcaagtatg cttcccagtc cttctcaggg 600

gtcccctcga ggttcagtgg cagtggatct gggacagatt tcaccctcac catcaatagc 660

ctggaagctg aagatgctgc agcgtattac tgtcatcaga gtagtagttt accgatcacc 720

ttcggccaag ggacacgact ggagattaaa gactacaagg atgacgacga taagtgataa 780

gcggccgcaa t 791

<210> 6
<211> 254
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized peptide sequence

<400> 6

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Glu Ile Val Leu Thr
130 135 140

Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val Thr Ile
145 150 155 160

Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp Tyr Gln
165 170 175

Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala Ser Gln

180 185 190

Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr
195 200 205

Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Ala
210 215 220

Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly Gln Gly
225 230 235 240

Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
245 250

<210> 7
<211> 1538
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized nucleotide sequence

<400> 7
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gtccagtgtg aggtacagct gttggagtct gggggaggct tggtacagcc tgggaggtcc 120

ctgagactct cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc 180

cgccaggctc agggaaggg gctggagtgg gtctcagcta ttagtggtag tggtggtagc 240

agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300

acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360

aaagagagca gtggctggtt cggggccttt gactactggg gccagggaac cctggtcacc 420

gtctcctcag gtggaggcgg atcggaaatt gtgctgactc agtctccaga ctttcagtct 480

gtgactccaa aggagaaagt caccatcacc tgccgggcca gtcagagcat tggtagtagc 540

ttacactggt accagcagaa accagatcag tctccaaagc tcctcatcaa gtatgcttcc 600

cagtccttct caggggtccc ctcgaggttc agtggcagtg gatctgggac agatttcacc 660

ctcaccatca atagcctgga agctgaagat gctgcagcgt attactgtca tcagagtagt 720

agtttaccga tcaccttcgg ccaagggaca cgactggaga ttaaaagagc tgatgctgca 780

gctgcaggag gtcccgggtc cgaggtacag ctgttggagt ctgggggagg cttggtacag 840

cctgggaggt ccctgagact ctcctgtgca gcctctggat tcacctttag cagctatgcc 900

atgagctggg tccgccaggc tccagggaag gggctggagt gggtctcagc tattagtggt 960

agtggtggta gcagatacta cgcagactcc gtgaagggcc ggttcaccat ctccagagac 1020

aattccaaga acacgctgta tctgcaaatg aacagcctga gagccgagga cacggccgta 1080

tattactgtg cgaaagagag cagtggctgg ttcggggcct ttgactactg gggccaggga 1140

accctggtca ccgtctcctc aggtggaggc ggatcggaaa ttgtgctgac tcagtctcca 1200

gactttcagt ctgtgactcc aaaggagaaa gtcaccatca cctgccgggc cagtcagagc 1260

attggtagta gcttacactg gtaccagcag aaaccagatc agtctccaaa gctcctcatc 1320

aagtatgctt cccagtcctt ctcaggggtc ccctcgaggt tcagtggcag tggatctggg 1380

acagatttca ccctcaccat caatagcctg gaagctgaag atgctgcagc gtattactgt 1440

catcagagta gtagtttacc gatcaccttc ggccaaggga cacgactgga gattaaagac 1500

tacaaggatg acgacgataa gtgataagcg gccgcaat 1538

<210> 8
<211> 503
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized peptide sequence

<400> 8

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr

115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
130 135 140

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
145 150 155 160

Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser
165 170 175

Leu His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
180 185 190

Lys Tyr Ala Ser Gln Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly
195 200 205

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
210 215 220

Glu Asp Ala Ala Ala Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile
225 230 235 240

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Ala Asp Ala Ala
245 250 255

Ala Ala Gly Gly Pro Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
260 265 270

Gly Leu Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser
275 280 285

Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser

305 310 315 320

Arg Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
325 330 335

Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
340 345 350

Asp Thr Ala Val Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly
355 360 365

Ala Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
370 375 380

Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser
385 390 395 400

Val Thr Pro Lys Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Ser
405 410 415

Ile Gly Ser Ser Leu His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro
420 425 430

Lys Leu Leu Ile Lys Tyr Ala Ser Gln Ser Phe Ser Gly Val Pro Ser
435 440 445

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
450 455 460

Ser Leu Glu Ala Glu Asp Ala Ala Ala Tyr Tyr Cys His Gln Ser Ser
465 470 475 480

Ser Leu Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Asp
485 490 495

Tyr Lys Asp Asp Asp Asp Lys

500

<210> 9
<211> 15
<212> DNA
<213> Artificial

<220>
<223> An artificial sequence encoding linker sequence

<400> 9
ggtggaggcg gatcg 15

<210> 10
<211> 5
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized linker sequence

<400> 10
Gly Gly Gly Gly Ser
1 5

<210> 11
<211> 24
<212> DNA
<213> Artificial

<220>
<223> An artificial sequence encoding flag tag sequence

<400> 11
gactacaagg atgacgacga taag 24

<210> 12
<211> 8
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized flag tag sequence

<400> 12
Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 13
<211> 806
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized diabody sequence

<400> 13
tagaattcca ccatggagtt tgggctgagc tggcttttc ttgtggctat tttaaaaggt 60

gtccagtgtg aggtacagct gttggagtct gggggaggct tggtacagcc tgggaggtcc 120

ctgagactct cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc 180

cgccaggctc agggaaggg gctggagtgg gtctcagcta ttagtggtag tggtggtagc 240

agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300

acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360

aaagagagca gtggctggtt cggggccttt gactactggg gccagggaac cctggtcacc 420

gtctcctcag gtggaggcgg atcggaaatt gtgctgactc agtctccaga ctttcagtct 480

gtgactccaa aggagaaagt caccatcacc tgccgggcca gtcagagcat tggtagtagc 540

ttacactggt accagcagaa accagatcag tctccaaagc tcctcatcaa gtatgcttcc 600

cagtccttct caggggtccc ctcgaggttc agtggcagtg gatctgggac agatttcacc 660

ctcaccatca atagcctgga agctgaagat gctgcagcgt attactgtca tcagagtagt 720

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gacgataagt gataagcggc cgcaat 806

<210> 14
<211> 94
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 14
tagaattcca ccatggagtt tgggctgagc tggcttttttc ttgtggctat tttaaaaggt 60

gtccagtgtg aggtacagct gttggagtct gggg 94

<210> 15
<211> 96
<212> DNA

<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 15
tgctaaaggt gaatccagag gctgcacagg agagtctcag ggacctccca ggctgtacca 60

agcctccccc agactccaac agctgtacct cacact 96

<210> 16
<211> 97
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 16
cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc cgccaggctc 60

cagggaaggg gctggagtgg gtctcagcta ttagtgg 97

<210> 17
<211> 99
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 17
ttggaattgt ctctggagat ggtgaaccgg cccttcacgg agtctgcgta gtatctgcta 60

ccaccactac cactaatagc tgagacccac tccagcccc 99

<210> 18
<211> 103
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 18
ccggttcacc atctccagag acaattccaa gaacacgctg tatctgcaaa tgaacagcct 60

gagagccgag gacacggccg tatattactg tgcgaaagag agc 103

<210> 19
<211> 87
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 19
ggagacggtg accagggttc cctggcccca gtagtcaaag gccccgaacc agccactgct 60

ctctttcgca cagtaatata cggccgt 87

<210> 20
<211> 98
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 20
tggggccagg gaaccctggt caccgtctcc tcaggtggag gcggatcgga aattgtgctg 60

actcagtctc cagactttca gtctgtgact ccaaagga 98

<210> 21
<211> 79
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 21
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cacagactga aagtctgga 79

<210> 22
<211> 103
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 22
cgggccagtc agagcattgg tagtagctta cactggtacc agcagaaacc agatcagtct 60

ccaaagctcc tcatcaagta tgcttcccag tccttctcag ggg 103

<210> 23
<211> 97
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 23
gcttccaggc tattgatggt gagggtgaaa tctgtcccag atccactgcc actgaacctc 60

gaggggaccc ctgagaagga ctgggaagca tacttga 97

<210> 24
<211> 90
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 24
tttcaccctc accatcaata gcctggaagc tgaagatgct gcagcgtatt actgtcatca 60

gagtagtagt ttaccgatca ccttcggcca 90

<210> 25
<211> 93
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized oligonucleotide sequence

<400> 25
attgcggccg cttatcactt atcgtcgtca tccttgtagt ctttaatctc cagtcgtgtc 60

ccttggccga aggtgatcgg taaactacta ctc 93

<210> 26
<211> 26
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 26
tagaattcca ccatggagtt tgggct 26

<210> 27
<211> 26
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 27
ggagacggtg accagggttc cctggc 26

<210> 28
<211> 26
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 28
tggggccagg gaaccctggt caccgt 26

<210> 29
<211> 26
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 29
attgcggccg cttatcactt atcgtc 26

<210> 30
<211> 35
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 30
tcctcaggtg gagaaattgt gctgactcag tctcc 35

<210> 31
<211> 36
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 31
aatttctcca cctgaggaga cggtgaccag ggttcc 36

<210> 32
<211> 32
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 32
tcctcaggtg aaattgtgct gactcagtct cc 32

<210> 33
<211> 36
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 33
cacaatttca cctgaggaga cggtgaccag ggttcc 36

<210> 34
<211> 32
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 34
gtctcctcag aaattgtgct gactcagtct cc 32

<210> 35
<211> 36
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 35
cacaatttct gaggagacgg tgaccagggt tccctg 36

<210> 36
<211> 12
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized linker sequence

<400> 36
Arg Ala Asp Ala Ala Ala Ala Gly Gly Pro Gly Ser
1 5 10

<210> 37
<211> 60
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 37
ggacccggga cctcctgcag ctgcagcatc agctctttta atctccagtc gtgtcccttg 60

<210> 38
<211> 35
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 38
ggtcccgggt ccgaggtaca gctgttggag tctgg 35

<210> 39
<211> 37
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 39
gataagcttc caccatggag tttgggctga gctggct 37

<210> 40
<211> 43
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 40
gtcggatcca ctcacctgag gagacggtga ccagggttcc ctg 43

<210> 41
<211> 94
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 41
gataagcttc caccatgtcg ccatcacaac tcattgggtt tctgctgctc tgggttccag 60

cctccagggg tgaaattgtg ctgactcagt ctcc 94

<210> 42
<211> 40
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized primer sequence

<400> 42
gtcggatcca ctcacgttta atctccagtc gtgtcccttg 40